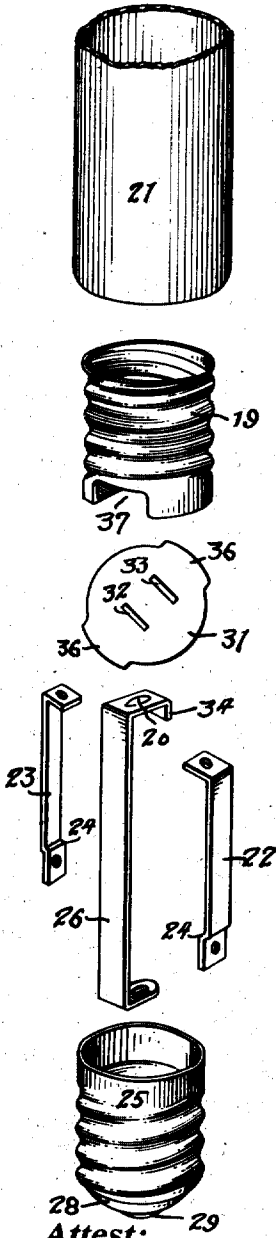


A. H. NERO.
ELECTRIC LAMP SOCKET.
APPLICATION FILED JULY 8, 1916.

Patented Nov. 6, 1917.

1,245,949.

Fig. 3.



Attest:
M. McJannet

Fig. 1.

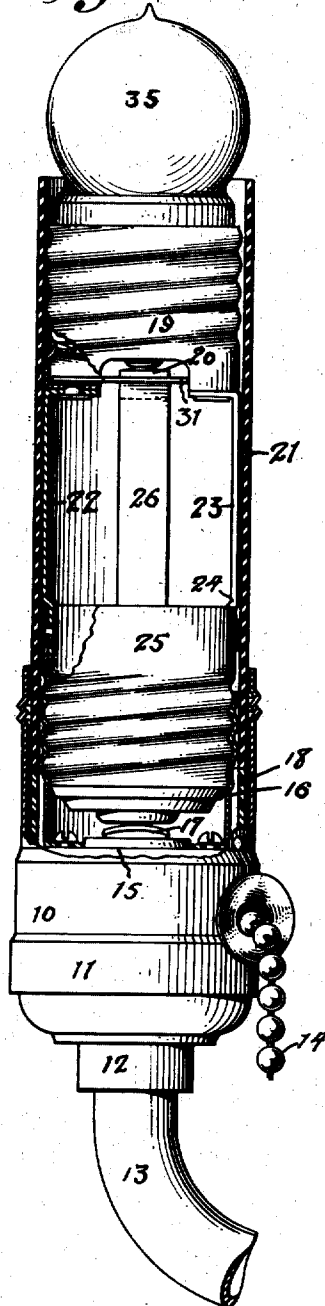
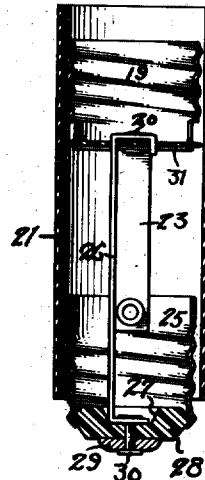


Fig. 2.



by

Inventor:
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Kinnon and Kinnon Attys.

UNITED STATES PATENT OFFICE.

ARVID H. NERO, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE ARROW ELECTRIC COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRIC-LAMP SOCKET.

1,245,949.

Specification of Letters Patent.

Patented Nov. 6, 1917.

Application filed July 8, 1916. Serial No. 108,228.

To all whom it may concern:

Be it known that I, ARVID H. NERO, a citizen of the United States of America, and residing at New Britain, in the county of Hartford and State of Connecticut, have invented a certain new and useful Improvement in Electric-Lamp Sockets, of which the following is a specification.

My invention relates to electric lamp sockets and particularly to the type of socket known as the candle lamp socket. The special object of my invention is to provide a device which may be applied to an ordinary lamp socket in order to form therewith an electric fitting of the candle type.

In the accompanying drawings,

Figure 1 is a side elevation partially broken away of a socket to which an attachment embodying my invention is applied;

Fig. 2 is a vertical section through this attachment alone; and

Fig. 3 is a dropped perspective of the parts of the latter.

Referring to the drawings, my invention is here illustrated in connection with a socket of ordinary construction having a casing 10, the cap 11 of which is provided with a boss 12 adapted to be screwed upon a fixture pipe 13 through which wires are led to the socket in well known manner. The latter may be of any suitable type. I have here shown it of the switch type with pull chain 14 for operating the switch mechanism. The socket as usual comprises an insulating body 15 upon which are mounted the lamp-receiving screw shell 16 and center contact 17, together with insulating lining 18 surrounding the screw shell and in the present case somewhat shortened so that it lies within the open end of the casing instead of extending slightly beyond the latter as is ordinarily the case.

The fitting to which my invention particularly applies consists essentially in an extension lamp receptacle and means for supporting and electrically connecting the screw shell 19 and center contact 20 thereof to the corresponding terminals of the standard socket, together with an insulating casing 21 simulating a candle and adjacent the outer end of which the receptacle is arranged. In the particular construction here shown I have accomplished this end by

mounting the screw shell 19 of the receptacle upon a pair of standards 22 and 23, the angled outer ends of which are riveted to the usual base flanges of the receptacle, while their inner ends are offset at 24 to lie within the outer edge of a similar screw shell 25 to which they are riveted, thus affording a mechanical and electrical connection between the shells 19 and 25. The center contact 20 of the receptacle is here formed by the recurved upper end of a standard 26, the lower end of which enters a depression 27 in the insulating button 28 at the entering end of the screw shell 25 and is electrically connected to the center contact 29 of the latter by means of a rivet 30 passing through the button 28 and mechanically securing and electrically connecting both center contact 29 and standard 26 thereto. The upper end of the standard 26 is maintained in centered position with relation to the screw shell 19 and insulated therefrom by means of a disk 31 of insulation which is perforated at 32 and 33, the former perforation receiving the shank of the standard and the second perforation, viz. 33, receiving the recurved end 34 of the standard, leaving the bridge piece 20 exposed above the disk 31 for engagement by the center contact of the candle lamp 35. The disk 31 is provided at opposite points on this margin with lugs 36 which take into recesses 37 formed in the wall of the receptacle 19, thus positioning the center contact accurately with relation to the screw shell. The disk and center contact are retained by the rivet 30 which fastens the lower end of the standard 26 since the standards 22 and 23 are of such predetermined length with relation to the standard 26 that in the adjusted position of the latter the disk 31 is held firmly against the opposite bottom flanges of the receptacle 19.

The candle-like casing 21 of the fitting rests, in adjusted position, against the outer end of the insulating lining 18 of the socket and forms a continuation thereof extending outward a sufficient distance to incase the receptacle 19. The casing may be of glass or other insulating material, but is preferably made of paper glazed to simulate a wax candle.

The present invention affords an inexpensive fitting which may be applied to standard sockets to transform the latter into

fixtures of the candle type. Inasmuch as no alteration of the lamp socket is necessary, other than the shortening of the insulating lining thereof, the invention may be applied not only to new installations, but to exist-
 5 ing installations—a feature which will particularly commend it, from the standpoint of economy, to the general public.

Various modifications of construction will readily occur to those skilled in the art without departing from what I claim as my invention.

I claim as I my invention:—

1. A fitting of the type described, comprising lamp receptacle contacts, plug con-
 15 tacts, standards spacing said receptacle and plug contacts apart and forming the sole means for electrically and mechanically connecting the same, substantially as described.

2. A fitting of the type described, comprising lamp receptacle contacts, plug con-
 20 tacts, standards spacing said receptacle and plug contacts apart and forming the sole means for electrically and mechanically connecting the same, and a tubular insulating casing separate therefrom but adapted to in-
 25 close said contacts.

3. A fitting of the type described, comprising a plug having an insulating button, screw shell and center contacts mounted thereon, a lamp receptacle having a shell contact mechanically and electrically con-
 30 nected to the plug shell contact, and a standard having a foot piece resting against the inner face of said button and means pier-
 35 cing the button to unite said foot piece to the plug center contact, said standard extending to the receptacle and forming, at its upper end, the center contact of said receptacle.

4. A fitting of the type described, comprising a plug having screw shell and center contacts, a lamp receptacle having a shell contact mechanically and electrically con-
 40 nected to the plug shell contact, and a standard extending from the plug center contact to the receptacle and forming, at its upper end, the center contact of said receptacle, together with an insulating disk engaged by
 45 said end and serving as the sole means to maintain the latter in centered relation to the screw shell.

5. A candle socket fitting, comprising a standard lamp socket having an insulating casing, a screw shell contact therein, an in-
 50 sulating lining separating said shell and casing and spaced from the outer end of the casing, in combination with an extension socket having contacts adapted to engage the
 55 contacts of the standard socket, and an independent tubular insulating casing inclosing said extension socket and its connections and
 60 resting against and forming a continuation of the insulating lining of the latter, substantially as described.

6. A fitting of the type described, comprising lamp receptacle contacts, an insulating disk spacing the same apart, plug con-
 65 tacts, an insulating button to which said contacts are secured and by which they are spaced apart, in combination with standards forming the sole means for spacing said re-
 70 ceptacle and plug contacts apart and mechanically and electrically connecting the same, substantially as described.

7. A candle socket fitting comprising a screw shell plug contact, an insulating but-
 75 ton secured to the entering end of said shell, a center contact carried by said button, a standard extending from the inner face of
 80 said button, means piercing the button and serving to unite said standard and center contact, a lamp receptacle having the upper end of said standard as its center con-
 85 tact, a screw shell side contact for said receptacle, a standard directly connecting said contact with the shell contact of the plug, and insulating means spacing apart the center and shell contacts of said receptacle.

8. A candle socket fitting comprising a screw shell plug contact, an insulating but-
 90 ton secured to the entering end of said shell, a center contact carried by said button, a standard extending from the inner face of said button, means piercing the button and
 95 serving to unite said standard and center contact, a lamp receptacle having the upper end of said standard as its center contact, a screw shell side contact for said receptacle having a pair of base flanges at its opposite
 100 sides, a pair of standards extending from opposite sides of said plug shell and directly connected to said base flanges, and insulating means spacing apart the center and shell contacts of said receptacle.

9. A candle socket fitting comprising a lamp receptacle element and a plug element, both with screw shell and center contacts, a pair of standards spacing said elements
 105 apart and mechanically and electrically connected to the shell contacts thereof in combination with a third standard electrically connected to the plug center contact and extending to and forming at its outer face the
 110 center contact of the lamp receptacle, together with an insulating disk engaged by said center contact standard and serving to position the latter within the base of the
 115 screw shell of the lamp receptacle.

10. In a candle socket fitting, a lamp receptacle comprising a screw shell side con-
 120 tact and a slotted insulating disk arranged in the bottom thereof, together with a standard piercing said disk and having a recurved end engaging the slot therein to accurately
 125 position said standard with relation to the screw shell contact of the receptacle.

11. A candle socket fitting comprising a plug having screw shell and center contacts, a lamp socket having screw shell and center
 130

contacts, standards spacing said plug and center contacts apart and mechanically and electrically connected thereto, in combination with a candle-like tube separate from
5 said parts but freely sleeving thereover and affording a casing therefor in the assembled position of the parts.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses.

ARVID H. HOFF.

Witnesses:

BENJ. PERKINS,
FRED. P. GATES.